

Certificate of Express Mailing under 37 CFR 1.10

I hereby certify that the enclosed correspondence is being deposited with the United States Postal Service "Express Mail Post Office To Addressee" service under 37 CFR 1.10 on the date indicated below in an envelope addressed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450



Signature

Geena Licata

Typed or printed name of person of signing Certificate

January 7, 2005

Date of Deposit

EV 557037885 US

Express Mail Label No.

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Documents Enclosed:

National phase patent application based on PCT/BG2003/002857

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/GB 03/02857A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B66F17/00 B66F9/065

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B66F E02F B66C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 042 135 A (PUGH STUART ET AL) 16 August 1977 (1977-08-16) abstract column 1, line 44-52 column 2, line 11 - line 26 column 2, line 50 - line 68 column 3, line 25 - column 4, line 4 figures 1-5 -/--	1-21, 23, 25, 27

☒ Further documents are listed in the continuation of box C:☒ Patent family members are listed in annex:

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

20 October 2003

Date of mailing of the international search report

29/10/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Ferrien, Y

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 03/02857

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 361 832 A (METZ GMBH CARL) 30 July 1974 (1974-07-30)	1-6, 8-10,12, 14-18, 21,23, 25,27
Y	page 4, line 44 - line 113 page 5, line 1 - line 4 page 8, line 83 - line 119 figures 1,4	7,11,13, 19,20
Y	US 5 257 177 A (BACH MICHAEL ET AL) 26 October 1993 (1993-10-26) column 10, line 2 - line 21 figure 2	7,19,20
Y	FR 2 574 389 A (MANITOU BF) 13 June 1986 (1986-06-13) abstract	11,13
X	GB 1 403 046 A (WEIMAR KOMBINAT VEB) 13 August 1975 (1975-08-13) page 1, line 19 - line 62	1

INTERNATIONAL SEARCH REPORT

national application No.:
PCT/GB 03/02857

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 22, 24, 26, 28
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 22,24,26,28

Claims 22,24,26,28 contain references to the drawings. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB 03/02857

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4042135	A	16-08-1977	GB 1528741 A	18-10-1978
			DE 2545427 A1	29-04-1976
			FR 2287413 A1	07-05-1976
GB 1361832	A	30-07-1974	DE 2033469 A1	20-01-1972
			FR 2105802 A5	28-04-1972
			JP 56025689 B	13-06-1981
US 5257177	A	26-10-1993	DE 4030954 A1	09-04-1992
			CA 2046808 A1	30-03-1992
			DK 163291 A	30-03-1992
			FR 2667367 A1	03-04-1992
			GB 2250836 A ,B	17-06-1992
			IT 1251213 B	04-05-1995
			JP 4314107 A	05-11-1992
			SE 503746 C2	19-08-1996
			SE 9102178 A	30-03-1992
FR 2574389	A	13-06-1986	FR 2574389 A1	13-06-1986
GB 1403046	A	13-08-1975	NONE	